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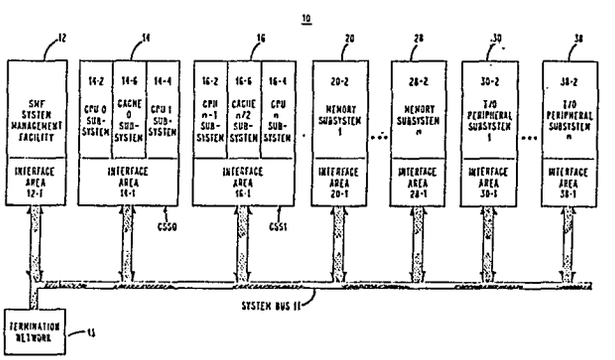
(54) Channel number priority assignment apparatus.

(57) A data processing system has a system bus network which includes a distributed priority network for transferring data asynchronously between a number of subsystems which couple to the bus. Each subsystem includes priority logic circuits coupled to receive a group of priority signals from the priority network which establish when the subsystem has the highest priority of the requesting subsystems to access the bus. The number of subsystems include a plurality of identical subsystems, each of which has a channel number assignment apparatus. The apparatus of each identical subsystem is connected to receive the same of at least one of the group of priority signals. During the idle state of the system bus, the apparatus of each identical subsystem operates to store a unique state of the priority signal which is defined as a function of the subsystem's position on the bus thereby automatically establishing a unique channel number value for each identical subsystem.



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EUROPEAN SEARCH REPORT

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
A,D	FR-A-2 316 660 (HONEYWELL) * Page 2, lines 3-33; page 3, lines 24-39; page 4, lines 1-11; page 5, lines 11-24; page 8, lines 7-13; page 10, lines 5-6; page 11, lines 22-29; page 12, lines 22-24; page 14, line 35; page 48, lines 24-38; page 49, lines 1-3; figures 1,8,13 *	1,2,9, 10,19, 22	G 06 F 13/36 G 06 F 12/06
A	IBM TECHNICAL DISCLOSURE BULLETIN, vol. 12, no. 2, July 1969, page 319, New York, US; M.E. HOUDEK: "Selection system" * Whole article *	1,9	
A	EP-A-0 087 368 (DIGITAL EQUIPMENT) * Abstract; page 2, lines 33-35; page 3, lines 1-23; page 12, lines 21-33; page 18, lines 22-31; figures 1-3 *	1,3,9, 22	

TECHNICAL FIELDS SEARCHED (Int. Cl.4)

G 06 F

The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
THE HAGUE	08-06-1988	SOLER J.M.B.

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
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